





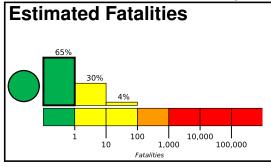
**PAGER** Version 4

Created: 2 hours, 1 minute after earthquake

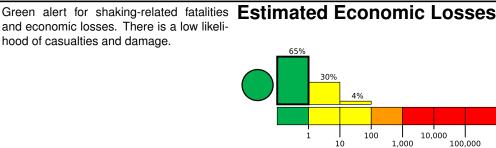
USD (Millions,

# **M 5.4, 74km W of Panguna, Papua New Guinea**Origin Time: 2019-11-25 16:00:21 UTC (Tue 02:00:21 local) Location: 6.3609° S 154.8161° E Depth: 49.6 km

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and economic losses. There is a low likelihood of casualties and damage.



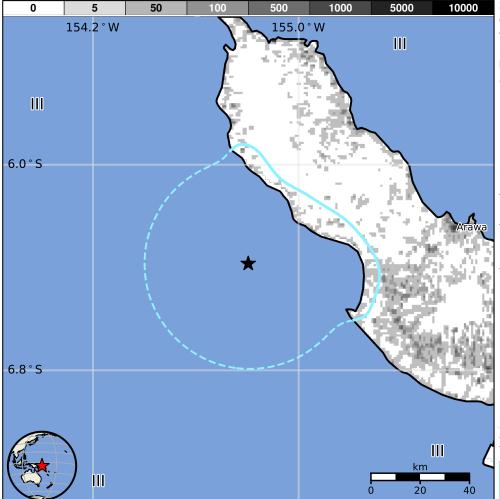
**Estimated Population Exposed to Earthquake Shaking** 

| ESTIMATED POPULATION<br>EXPOSURE (k=x1000) |                          | _*       | 141k*  | 11k   | 0        | 0        | 0           | 0          | 0        | 0        |
|--|--------------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY      |                          | I        | 11-111 | IV    | V        | VI       | VII         | VIII       | IX       | X+       |
| PERCEIVED SHAKING                          |                          | Not felt | Weak   | Light | Moderate | Strong   | Very Strong | Severe     | Violent  | Extreme  |
| POTENTIAL<br>DAMAGE                        | Resistant<br>Structures  | None     | None   | None  | V. Light | Light    | Moderate    | Mod./Heavy | Heavy    | V. Heavy |
|  | Vulnerable<br>Structures | None     | None   | None  | Light    | Moderate | Mod./Heavy  | Heavy      | V. Heavy | V. Heavy |

<sup>\*</sup>Estimated exposure only includes population within the map area.

## Population Exposure





# **Structures**

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

### **Historical Earthquakes**

| Date       | Dist. | Mag. | Max        | Shaking |  |
|------------|-------|------|------------|---------|--|
| (UTC)      | (km)  |      | MMI(#)     | Deaths  |  |
| 1996-04-29 | 37    | 7.2  | VII(57k)   | 1       |  |
| 2000-11-16 | 386   | 8.0  | VIII(131k) | 1       |  |
| 1983-12-21 | 338   | 6.2  | VII(5k)    | 10      |  |

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

### Selected City Exposure

| ioni Geo     |            |
|--------------|------------|
| MMI (        | Population |
| III F        | 3k         |
| III k        | 4k         |
| III A        | 40k        |
| III <i>F</i> |            |

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.